PERMIT APPLICATION PACKAGE



OSAGE NATION UIC

FIRST NATIONAL BANK BLDG. 100 W. MAIN ST., STE. 304 PAWHUSKA, OK 74056

> Tel: 918/287.5333 Fax: 918/287.5581

Most injection wells which are currently operating in Osage County are "Authorized By Rule" (ABR) and need not apply for an individual permit. However, wells in the following categories must apply for and receive an EPA permit to construct or operate oil and gas related injection wells in Osage County:

- 1. Any well constructed or completed after December 30, 1984;
- 2. Any production well converted to an injection well after December 30, 1984;
- 3. In a utilized operation, any new well which is not authorized by a pervious permit;
- 4. Wells which the operator wishes to operate outside rule requirements (e.g., at a higher pressure than authorized by rule.).
- 5. Wells which were authorized by rule but have not been identified as one of the following:
 - a. being in violation of the rule;
 - b. no longer within the category of rule authorized well;
 - c. needing additional restrictions to protect underground source of drinking water (USDW's).***

Please include or reference all the information requested in this package so that we may quickly process your application without delay. A copy of this application package will be immediately forwarded to the Osage Agency BIA and EPA. For additional copies of the permit package, please visit our website @ www.osagetribe.com and click on the Environmental & Natural Resources tab located on the right side of the page under Department Directory.

At any time, if you have questions about the information requested, please call our office at 918.287.5333. We will be happy to assist you.

***Operators of wells in this category will receive a letter from the Dallas EPA directing them to apply for a permit.

Well Name & No.:	Permit #:		
	Date Rec'd:		

PERMIT APPLICATION CHECKLIST

	Attached	Not Attached	,
1.		, .	Osage Form 139, "Application for Operation or Report on Wells.
2.		participation of the second	Osage Form 208 "Completion Report".
3.			Copy of Plat Map showing wells within 1/4 mile radius of proposed well.
4.			Tabulation of data on wells within 1/4 mile radius including well name, company name, date drilled, depth, exact location, status of well & record of pluggings/completions.
5.			Injection well schematic showing total depth and plugback depth, depth from top & bottom of casing(s) & cemented intervals, cement amount, depth & size of casing & tubing, including depth of packer.
6.			Operating data including: type of well; maximum and average injection rate; source and analysis of injected fluids including TDS, chlorides and additives; major geological formation with top bottoms.
7.	1		Geological data of the injection zones including name(s), total thickness, porosity, lithologic description, permeability, injection depth, reservoir pressure/fluid level. Address the presence or absence of faults.
8.		3	Public Notice verifications, consisting of a list showing names, addresses, and date that notice of permit application was given or sent to the surface land owner, tenants of land where the injection well will be located, each operator of a producing lease within ½ mile of the well location.
9.			All available logging & testing data of the well attached.

	Attached	Not Attached	
10.			Copy of surety bond filed with the BIA superintendent (25 CFR §266.6).
11.			Certification form signed by the well owner/operator or authorized representative. (Authorization must be attached & in writing.)
12.	YES	ИО	Has the applicant declared any part of his submission as confidential? {147.2907}
13.	YES	NO	Is the well currently Authorized by Rule? If yes, Inventory No
14.	YES	Ю	Was the applicant required by EPA to apply for a permit?
15.	YES	NO	Is the permit applicant the owner/operator. (Circle one or both.)
16.	YES	NO	Has the applicant requested emergency authorization to inject? If yes, attach emergency checklist.
17.	YES	NO	Berms and all facilities associated with saltwater system adequate?
Pawhu	ıska Technician/Admin	istrative Review	Date
- 6W-SE	Reviewer		Date

To	he	com	nle	ted h	111	IC: C	Office

	Permit#	
Owner/Operator:	Pennu#_	

PERMIT TRACKING PROCEDURE CHECKLIST

<u>Date</u>	<u>Initial</u>	
	(Application logged in; Number Assigned & Receipt Date Stamped on Application.
		Application reviewed for completeness.
		Surety bond attached.
-	and the second of	Operator notified of incompleteness.
	1	Application terminated due to no response within 30 days.
:		Application determined complete & file started on well.
	(<u>**********************</u>)	Completion letter mailed to operator.
		Transmitted copy to BIA & EPA.
	72-30000	RBDMS data entered & well schematic prepared.
	<i>3</i> 0	Date of 6-W Signature.
		Draft Permit, Statement of Basis, Public Notice & Letter of Intent signed & mailed to operator & BIA.
3		Data Entry Accomplished.
	pin-	Public Notice submitted to newspaper.
		Public Notice publication verified.
		Comment Period Ends.
•		Comments reviewed & 6W decided whether to hold public hearing. YES NO
		Permit Finalized & Response to Comments prepared. (IF REQUIRED)
XX		Final Permit Approved; Returned for concurrence if different from Draft Permit.
<u> </u>		Final Permit, Cover Letter to Operator; Responsiveness Summary, etc. sent to applicant, Osage UIC & BIA.
***************************************		Responsiveness Summary including Final
		Permit decision mailed to appropriate parties.
,		Permit effective date:
		Complete inventory data sheet & complete data entry.
-		Permit appealed to Administrator? YES NO
		Proof of MIT mailed to Dallas.
MINISTER STORY	Marie Control	Notice to operator authorizing injection.

Revised March 2015

BUREAU OF INDIAN AFFAIRS OSAGE AGENCY WORKOVER PERMIT

LESSEE:	Chaparral	Energy
PERMIT Ñ	o. # 16G0	6427023

APPROVAL DATE 2~19~10 WELL No. 6W LEGAL: SE 11-27-05

This permit shall remain in effect for two (2) years from date of approval or until the end of the lease, whichever occurs first. This permit is approved under the following conditions:

- 1. The work described in the attached Form139 is approved subject to the following conditions.
- 2. That <u>within 10 days</u> following completion of work done, a supplemental report on Form 139 shall be submitted to this office detailing the work performed and the results obtained.
- 3. The above mentioned report shall contain details of perforating, stimulation (acidizing and/or fracturing), depth of any bridge plugs, cement retainers and/or packers, and any other relevant work performed on the well.
- 4. The furnished report shall contain a comparison of production or injection rate before and after the permitted work. Injection information should include both rates and pressures, while production wells should show oil, gas and water production rates.
- If any cementing is authorized under this permit, copies of cement tickets showing amount and type of cement used, listing any additives to the cement, and specifying who performed the cement work shall be included with the report, and the report shall clearly describe the cementing work done.
- Should an electrical log of any type be run during the work authorized by this permit, or should any samples of rock and or reservoir fluid be taken, copies of such logs, and/or the analyses of such samples shall be furnished to this office.
- 7. All work performed under this permit shall be done in accordance with all applicable Federal Regulations and no release of fluid into the environment is authorized.
- 8. The conditions contained in Attachment A are hereby incorporated by reference.

Prepared by:	Sixu	Date: _	219116
Recommended by: Supervisory Petro	leum Engineer	Date: _	2/17/16
Approved by: Superintendent	Halloway -	Date: _	FEB 1 9 2016

Bureau of Indian Affairs

Osage Indian Agency Pawhuska, OK 74056

Permit Downhole Conditions of Approval

Re-Entry and Conversion to Injection Well

Operator:

Chaparral Energy

Well Name:

North Burbank Unit 16-6W

Legal Description:

SE Section 11, T27N R5E

- Per EPA instruction, 5 days prior to beginning operations the EPA, Osage ENR and BIA-Osage Indian Agency (BIA-OIA) shall be notified. Notify the EPA Field Inspector by phone at 918-605-1643 or 918-292-8652.
- Lessee will Provide EPA field inspector and BIA-OIA PE or PET with the procedure in which
 the conversion will be done including all injection zones, anticipated pressure, fluid volume and
 flowrate, type of zone isolation, type of injection tubing used, and all cementing programs.
 *Please note: All well conversions should be done under EPA guidelines and UIC programs
- 3. Any operation beyond well conversion will require further approval by the EPA per EPA instruction.
- 4. Within 10 days after completion of conversion, Lessee shall submit Form 139, Work Completed, to the Superintendent. The report must show at least the following:
 - Updated wellbore schematic
 - Completion report
 - Results of workover
 - Injection rate, pressure, and cumulative volume, observed weekly for disposal and monthly for injection
 - Injection zones
 - Methods used to isolate injection zones
 - Anticipated ground water monitoring
 - Depths of any plugs left in the wellbore
 - Cementing programs: Cement quantities, types of cement, and cement additives used
 - Results and type of Mechanical Integrity test
- 5. This approval does not alter any other Conditions of Workover Operations.

Contact Information

Jeff Hunt
Engineering Branch Chief Office:
(303)-842-4538
jeffrey.hunt@bia.gov

Janelle McLean Petroleum Engineer Office: (720)-407-0622 janelle.mclean@bia.gov

Fionna Frazier Petroleum Engineer Cell: 720-231-4141 fionna.frazier@bia.gov

United States

Res/NON Rost: Department of the Interior Permit No: 1600427013 **Osage Indian Agency**

Pawhuska, Oklahoma



Application For the Operation or Report on North Burbank Unit Tract 16

OS# (Commencement money paid to whom) (Date) (Amount) Well No.: 6W is located 980 Ft. from S line and 979 Ft. from W line SE/4 Sec. 11 27N Osage County, Oklahoma (% Sec. & Sec. No.) (Twp) (Range) Lat/Long 36.82826 / -96.73079 The elevation of the ground level above sea level is 1132.3 Ft. Use This Side to Request Authority for Work **Use This Side To Report Completed Work** (Three Copies Required) (One Copy Required) Notice of Intention To: Character of Well (oil, gas or dry) Injection Drill..... Subsequent Report of: Plug..... Conversion..... Deepen or plug back. Formation Treatment. Convert..... Altering casing...... □ Pull or alter casing.... Plugging Back..... Formation Treatment. Plugging..... 🗖 **Details of Work Details of Work & Results Obtained** Drifting applications will state proposed 1D & norrzons to be tested. Show size & ter to be used. Indicate proposed modding, comenting & other work.

Plugging applications shall set tonto reasons for plugging & detailed statement of proposed work. Plugging will not consecore must 10 days following approval date unless authority granted for A \$15.00 plugging fee is also required with each application to plug 0 Bbls oil Bbls water in 24 hrs 0 Re-enter well and convert to injection. Work commenced: Work completed: (Continue on reverse if necessary) This block for plugging information only Casing Record In Hole When Started Ami. Recovered I understand that this plan of work must receive approval in If Parted writing of the Osage Indian Agency before operations may be commenced. Lessee: Chaparral Energy, L.L.C Signature: Lessee: Leigh Kuykendall By: Title: Engineering Tech Specialist Subscribed and sworn to before me this day of Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

Locate old wellbore and install tinhorn around well. PU 250' of 13 3/8" 61# J-55 csg and wash and clean out mud in original hole to 250'. RU cementers and pump 200 sx Class C w/4% bentonite, circulate to surface. WOC. RIH w/12 1/4" bit to 714' (top of old 8-5/8" csg), condition hole, POH. RIH w/7-7/8" tapered mill and dress old 8-5/8" csg. Continue RIH to 1500', POH. RU cementers and cement surface csg 350 sx Class C w/6% bentonite. Circulate cement to surface. WOC. Cut off csg and install wellhead. RIH w/7-7/8" bit, drill out shoe and clean out to 2560' (top of old 7" csg). C&C hole w/9# mud. Mix and pump dense cement plug 2560'-2350' (75 sx Class C), POH. Run 7-7/8" bit and bent motor, tag cmt (TOC must be above 2400'), drill w/motor to 3250'. C&C hole. RIH w/5.5" 15.5# J55 csg w/DV tool @ +/- 2000' (over Layton formation). RU cementers, mix & pump 1st stage w/200 sx Class C neat. Drop plug, bump plug. Open DV tool, break circulation. Pump 2nd stage 250 sx 50/50 poz, circulate cement to surface. MIRU Workover rig and reverse unit. Test BOP, PU 4-3/4" bit, DCs and 2-3/8" workstring. Tag DV tool. Drill out DV tool and test to 1000#. Continue RIH w/bit, tag float collar. Drill out float collar and cement to shoe. Do not drill out shoe. Circulate clean and POH, LD workstring and BHA, RU Wireline, run PND 2250'-3250'. Run GR/CCL/CBL from 3250' to surface. Perforate per geologist recommendation. Set 5-1/2" AS1-X pkr w/pump out plug on wireline 25' above top perf. PU 2-3/8" TK lined tbg, tag pkr, space out w/subs. Circulate hole w/packer fluid. ND BOP, NU wellhead, test to 500 psi. Acidize well w/4000 gals 15% HCl and ball sealers. Displace w/15 bbls water. Verify authorization to inject has been received from EPA. MIT well before putting on injection.

Date Prepared:		: 02/09/2016		of 1:	Workover		
Lessee:	Chap	parral Energy, LLC		Permit Number:	mit Number: 16G064270		
Well Number	r:	16-6W		Lease Name:	North Burk	ırbank Unit	
Legal Desc	ription:	ption: SE		11	27	5	
		Quarter		Section	Township(N)	Range(E)	

Bureau of Indian Affairs, Osage Agency Conditions for Workover Operations ATTACHMENT A – Osage Form No. 139

The following forms must be kept at the project site at all times during the workover operation(s): (1) the Osage Agency Form No. 139, (2) Attachment A for Osage Form No. 139 which identifies all of the conditions of approval of workover operations in Osage County (listed below), and (3) the Workover Review form which will be provided to the Lessee/Operator upon confirmation of approval by the Agency.

General Requirements

All lessees must comply with the requirements of 25 CFR 226, including but not limited to:

- § 226.22 Prohibition of Pollution.
- § 226.33 Line Drilling Prohibiting location of any well or tank battery within 200 feet of a public highway, established watering place, or building used as a dwelling, granary or barn unless prior written permission is granted by the Superintendent.
- § 226.19 Use of Surface Lands Lessee must conduct operations in a workman like manner, commit no waste and allow non to be committed upon the land, nor permit any unavoidable nuisance to be maintained on the premises under his/her control.

All lessees must comply with, and obtain any necessary permits or authorizations required under the federal Clean Water Act, Clean Air Act, Safe Drinking Water Act, Endangered Species Act and other applicable federal laws.

In addition, the following standard Bureau of Indian Affairs (BIA) Osage Agency Best Management Practices (BMPs) shall apply, unless the Superintendent has given prior written approval of either 1) an exemption to a specific standard BIA Osage Agency BMP, or 2) equivalent set of BMPs developed by the Lessee and incorporated into the Environmental Assessment covering said lease(s) and permits(s). Any set of BMPs developed by the Lessee must be adequate to support a Finding of No Significant Impact without the need to have an ongoing, mitigation and monitoring plan.

Date Prepa	ared:	: 02/09/2016		Type of Action	20	Workover		
Lessee:	(Chaparra	l Energy, LLC	Permit Number: 16G064270		rmit Number: 16G06427023		
Well Numb	ımber:		16-6W		Lease Name:	North Burbank Unit		
Legal Description		egal Description: SE			11	27	5	
			Quarter		Section	Township(N)	Range(E)	

STANDARD BMPS

The following BMPs shall be followed by lessees, their agents, operators, and contractors:

- 1. Avoid impacts to National Register-eligible or unevaluated cultural resources on well sites and access roads. If cultural resources are discovered during construction or operation, stop work immediately, secure the affected site, and notify the BIA and Tribal Historic Preservation Officer. In the event of a discovery, work in that area shall halt and not resume until written authorization to proceed has been received from the BIA. All surface disturbances must be kept within the proposed ground disturbance area described in the EA. Expansion or relocation of the well pads, access roads, or other implementation of additional activities not included in the approved EA is prohibited unless an appropriate cultural resources survey has been submitted, determined adequate, approved by the BIA Osage Agency, and all appropriate permits have been obtained.
- 2. Avoid or minimize soil and vegetation disturbance. Avoid removal of or damage to trees, shrubs, and groundcover to the extent possible. Avoid or minimize alteration of the natural topography, and limit activities on steep slopes.
- 3. Erosion control measures are required for the duration of the construction, drilling and completion phases of the project. Erosion control measures must effectively prevent or minimize the movement of soil, debris or contaminants from the well site to adjacent lands and waterways.
- **4.** All vehicles and equipment must utilize and stay confined to existing and new roads described in the approved EA. These roads must be maintained and upgraded as needed according to BIA direction and agreements between the operator and surface owners.
- 5. Tank batteries must have a Spill Prevention and Control and Countermeasure Plan (SPCC) in compliance with EPA Regulations under 40 CFR Part 112. A fluid impermeable secondary containment dike/berm must be constructed around any tank battery and facilities according to 40 CFR 112.7. The dike/berm and entire containment area must be graveled. No water collected within the secondary containment shall be discharged. In accordance with the SPCC plan and the BIA regulations, the Lessee will immediately notify the BIA of all spill incidents.
- 6. No venting or flaring of gas is allowed unless prior written approval of the BIA Osage Agency Superintendent has been obtained.

Date Prepared:		02/09/2016		Type of Action:		Workover				
Lessee:		Chapari	ral Energy, LLC		Permit Number:	ermit Number: 16G06427023			ber: 16G06427023	
Well Num	ber:	16-6W			Lease Name:	North Burbank Unit				
Legal Description		ion:	SE		11	27	5			
			Quarter		Section	Township(N)	Range(E)			

- 7. Store and label chemicals properly (including secondary containment). Do not store equipment or chemicals onsite if they are not being used on site. Do not leave open containers of chemicals or wastes on site.
- 8. Keep sites clean and free of any litter, trash, old equipment, contaminated soil or unused containers. Promptly dispose of any wastes at appropriate recycling facility, approved landfill or other approved location. Remove any unused equipment not necessary to the operation of the lease after drilling activities have been completed.
- 9. If the well is successful, all production equipment, facilities and tanks including well-head and above-ground piping/equipment shall be properly enclosed to exclude livestock if present.
- 10. All pits (including tank batteries contained within a dike/berm) must be enclosed with a fence of at least four strands of barbed wire, or approved substitute. All earthen pits to be used for storage of salt water or other deleterious substances must be lined with an impermeable layer to prevent contamination of soils and groundwater. Temporary pits must be filled and leveled immediately upon completion of the activity.
- 11. To the extent possible, minimize disturbance to land owners, wildlife, and natural resources due to noise, excessive traffic, dust or other impacts associated with operations.
- 12. Do not conduct activities within stream channels or wetlands without proper authorization, and avoid any discharge of soil or contaminants or removal of stream water that could result in a violation of applicable federally- approved water quality standards.
- 13. Return area to original contour or as directed by the surface owner. If needed, add clean soil to disturbed areas. Restore disturbed areas by re-establishing vegetation using seed, sod or other approved method. Restore with native species unless otherwise directed by the surface owner in writing and approved by the BIA. No noxious or invasive species may be used in revegetation and reclamation activities.
- 14. If well drilling, completion and development <u>are</u> successful; all areas of the surface disturbance (i.e. well pad, access road, pipeline, etc.) that are not needed or used in the production or operation of the well shall be promptly reclaimed as described in the approved EA. If well drilling, completion and development <u>are not</u> successful, reclamation of the entire area will begin promptly. After a producing well is no longer in production, reclamation of the site will begin promptly. Reclamation shall be

Date Prep	pared:	02/09/2016	Action:		Workover 16G06427023		
Lessee:	Ch	naparral Energy, LLC					
Well Num	ber:	16-6W		Lease Name: North		Burbank Unit	
Legal Description		SE		11	27	5	
		Quarter		Section	Township(N)	Range(E)	

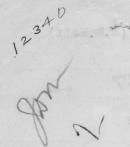
completed not later than ninety (90) days from rig removal, well abandonment or final plugging of a well, unless otherwise approved by the BIA.

- 15. The applicant shall conduct activities in a manner that avoids any potential incidental take or harm to federally-listed threatened and endangered species, or in a manner that complies with any permit or authorization issued by the U.S. Fish and Wildlife Service (USFWS). Applicant will follow guidance in the USFWS "Oklahoma Ecological Services Field Office Migratory Bird and Eagle Impact Avoidance Measures for Actions Associated with Oil and Gas Projects (April 2014).
- 16. Applicant will follow USFWS established protocol regarding areas where the American burying beetle (ABB) is known or suspected to exist. See http://www.fws.gov/southwest/es/oklahoma/ABBICP.htm. If proposed operations require the construction of a drilling pit or other excavation activity by heavy equipment, then the lessee must ensure that suitable habitat for the ABB does not exist. If proposed operations will impact suitable habitat for the ABB, it will be the responsibility of the lessee to obtain authorization from the USFWS to proceed with that portion of the project.

Site-Specific BMPs and Special Instructions

The following BMPs shall be followed by lessees, their agents, operators, and contractors:

- 1. Air Quality: For proposed drilling operation in areas where formations will be penetrated which have zones suspected of containing H2S of 100PPM in the gas stream, Lessee will implement the Air Quality BMPs listed in their Environmental Assessment, which are hereby incorporated by reference.
- 2. American Burying Beetle: If the proposed ground disturbing activities have not commenced by the beginning of the next active season (2016) lessee must perform another round of ABB presence absence surveys and submit those valid survey results to the results to the BIA and the USFWS. If subsequent surveys are positive for the presence of the ABB then additional consultation with USWS must be initiated between the BIA and the USFWS before drilling operations may commence.
- 3. Approval must be obtained from the Environmental Protection Agency prior to the commencement of workover operations related to underground injection, construction or conversion of saltwater injection/disposal wells.



DEPARTMENT OF THE INTERIOR

OFFICE OF INDIAN AFFAIRS

FINAL REPORT OF COMPLETED OR DEEPENED WELLS

FOR USE ON LANDS COVERED BY DEPARTMENTAL LEASES

MISCELLANEOUS RECEIVED

NOV 21 1924

OSAGE AGENCY

This report must be mailed immediately after completion of well.

LESSEE Phillips Petroleum Company,

LESSOR Osage Tribe of Indians (A.M. Matt)

SEA SEC. 11 WELL No. 6

COUNTY

980' fForM-S. of line and 979 front. E.-W. of line

Superintendent A. R. Edmondson

Well drilled by J. J. Fitzstephens Date commenced drilling Date commenced deepening

, 191 Finished , 191

, 191 , 191

Type of rig

(Standard, portable, etc. If more than one type used, ive distances and time drilled by each.)

Method of drilling

(Dry hole, wet, mud-fluid, etc. If more than one method used, give distances and time drilled by each.)

CASING USED IN DRILLING	CASING LEFT IN HOLE	SHOE	PACKERS
Length Size Wt. per ft. Thread	Length Landed at	Length Make	Kind Length Set at
41 12" 20 Ins. 90 Lbs. Per in.	21. Ft. 2" Ft.	Ft	
888 14 15 Ins. 70 Lbs. Per in.			
1230 6. 125 Ins. 50 Lbs. Per in.			
1458 A 10 Ins. 40 Lbs. Per in.	Ft Ft.	Ft	,
.2325. Ft 8 InSL . 28 Lbs	.2325. Ft Ft.	Ft.	Ft Ft.
.2823. Ft.6. 5/8. ISL .24 Lbs Per in.			

Method of shutting off water (In all cases give size of casing and formation in which landed. If driven, give feet driven and method.)

(C)

Method of shutting off water (In all cases give size of casing and formation in which landed. If driven, give feet driven and method.)

Is water completely shut off?

Amount water with oil

ft. to

per cent. Is oil cut

Oil—Initial 24-hr. production

Initial open flow sand from

600 bbls. Initial 24-hr. production after shot

bbls. Shot from

Cu. ft. Rock pressure

qts.

Tubing Gravity of oil ° Baumé. Pump (Size and length.) (Size and length.) Gas-Initial open flow sand from ft. to ft. Cu. ft. Rock pressure lbs. per sq. in. lbs. per sq. in. Initial open flow sand from ft. to Cu. ft. Rock pressure ft. to ft. Cu. ft. Rock pressure lbs. per sq. in. Initial open flow sand from

Dry hole or abandoned well (Give date plugged, number of plugs, kind of plugs, depth placed and final condition of hole.

lbs. per sq. in.

\$100.00 location bonus paid to Geo. N. Wise 7-21-24

Red. hole 2986' in sandy shale. Sandy shale 2986'-2996'. Gas sand 2996'-3000', dark brown soft sand 3000'-3008', soft brown sand 3008'-3047', black shale 3047-3053, Total Dept. C.M.

Sand, gas, gray soft Sand, oil, gray soft Shale, blue soft 2994 3000 first gas 3000 3047 first oil 3000,1000' 3005' 3047 3053 total depth

Sign here J.S. Dewar

Your position with lessee asst Gen. Suft.

UNITED STATES

1 - OIA-1 - File

DEPARTMENT OF THE INTERIOR

OSAGE INDIAN AGENCY

North Burbank Unit 16

Date	4-5-63

APR 9-1963

RECEIVED .

PAWHUSKA, OKLAHOMA DEAGE AGENCY Application For Operation and Report On Wells

2811-27-5

(Location fee paid to whom)	(Date)		(Amount)
Well No. 6 is located 980 ft. from	$n \left\{ \begin{array}{c} 3 \\ S \end{array} \right\}$ line and 979	ft. from $\left\{ \begin{array}{c} \mathbf{K} \\ \mathbf{W} \end{array} \right\}$	ine.
SE/4, Sec. 11	27N	5E	Osage County, Oklahoma.
(14 Sec. & Sec. No.)	(Twp.)	(Range)	
The elevation of the $\begin{cases} surface \\ derrick floor \end{cases}$ ab	ove sea level is	ft.	
THIS SIDE TO REQUEST AUTHORITY FOR	R WORK USE	THIS SIDE TO	REPORT COMPLETED WOR
(three conies required)		(one	conv required)

USE 7

(one copy required)

Orill
Change plans
Deepen or plug back
Convert
Shoot or acidize
Pull or alter casing
Abandon well

Character of well (whether oil, gas or dry) Oil Subsequent report of: Conversion __ Shooting or acidizing Altering casing -0 Plugging back _____

Details of Work

Details of Work

Abandonment _____

State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work;

Spotted 75 sx reg w/30% Diacel D & 2% CC @ 2990' - TOC 2770'. Ripped 7" 2585-60' & pld 122 jts. Dmpd 10 sx cmt @ 2450'. 8-5/8" parted - rec 34 jts. Mudded hole to surf.

(Continue on reverse side if necessary)

G:	In hole when	Amount	If pa	rted
Size	started	recovered	Depth	How
8-5/8"	23251	7141		
7"	28231	25601		

ORIGINAL TOTAL DE	PTH	
Plugging commenced	3-22-	63
Plugging completed	4-4-6	3
Name of the inspector who	supervised	d the plugging
of this well		

ne of the in	aspector who supervis	ed the plugging
his well		
Lessee:	Phillips Petr	oleum Company
7 pl	Kullingo	Diet Sunt

Subscribed and sworn to before me

April this 5th day of Notary Public

My commission expires 7-12-66

I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced.

Lessee: ____ By: _

Title: __

Address: Approved: .

ge Agency Inspector

\$100.00 location bonus paid to Geo. N. Wise 7-21-24

Red. hole 2986' in sandy shale. Sandy shale 2985'-2996'. Gas sand 2996'-2000', dark brown soft sand 3000'-3008', soft brown sand 3008'-3045', black shale 3047-3055, Total Dapt C.M.

Sand, gas. gray soft Sand, oil, gray soft Shale, blue soft

2994 5000 first gas 3000 3047 first oil 3000.1000' 3005' 3047 5053 total depth

. I

Sign here J. L. Dewar

Your position with lessee ast Gen. Supt.

Osage Form 208

Spot well on plat

UNITED STATES DEPARTMENT OF THE INTERIOR OSAGE AGENCY P.O. BOX 1539

Pawhuska, Oklahoma 74056 Report of Completed & Deepened Wells Within the Osage Reservation



Specify type of well Oil, Gas, CBM, SWD, Dry, etc. Injection One original must be filed within 10 days after comletion of well.	
Company operating CHAPARRAL ENERGY, L.L.C Address 701 Cedar Lake Blvd., Oklahoma City, OK 73114	
Lessee CHAPARRAL ENERGY, L.L.C. Lessor OSAGE TRIBE	
Well No. 16-W6 SE1/4 Sec 11 Twp 27N Rge 5E Farm Name North Burbank Unit [Ŋ] [Ŋ]	
Well located 980 ft from [S] line, 979 [W] line, Elevation GL 1134 DF 1147 KB 1148	
Elevation and location surveyed by Topographic Land Surveyors	
Drilling contractor(s) Edge Drilling Began 5/2/2016 Finished 5/13/2016	
Cable drilled interval and bit size(s) NA	
Mud X Air Rotary drilled interval & bit size(s) 18" to 140'; 12-1/4" from 140'-505'; 8-3/4" from 505'-2935'; 6-1/8" from 2935'-3069'	
Casing Record Cementing Contractor Consolidated Oil Well Services Size Wt Landed at Interval cemented Cement used; include type, gel, add	
Size VV. Editor d	
13 3/8 ins 48 lbs/ft 136 ft 0' to 136' 14 yds grout 9 5/8 ins 36 lbs/ft 505 ft 0' to 505' 400 sx 65/35 + 200 sx Class C w/2% CC & 69	% ne
2035 4 01 to 2035 4 01 to 2035 200 cy Class C life + 200 cy Class C	o gc
Open hole Interval(s) perforated holes 2935 to 3069; holes to holes to holes holes	
Interval(s) shut off	
Interval(s) left open Burbank ; and method Casing and cement	
Plug back depth Packer setAS1X Setting depth2918 Packer left in?Yes	
How were fresh water and other zones protected? Casing and cement	
Flow Pump Swab Bail Initial 24 hour Production Rate Before Treatment	
Casing Tubing Choke Size Oil bbls, Gas MCF Water bbls	
Duration of testhrs, GravityAPI FTPpsi SICPpsi SITPpsi	
Formation treatment (shot, acid, fracture, etc.) Indicate amount of materials used (i.e., nitro, sand, water, acid & other aditives)	
Feet to	
Feet to	
Feet to	
Flow Pump Swab Bail Initial 24 hour Production Rate After Treatment	
Casing Tubing Choke Size Oil bbls, Gas MCF Water bbls	
Duration of testhrs, GravityAPI FTPpsi SICPpsi SITPpsi	
Location fee paid Chaparral Real Estate LLC Date Amount \$	
Signature Control No. 1 Position with Lessee Regulatory Supervisor - EOR	

Datum	Elev.	1147' KB

						_		
SE	1/4	Sec	11	Ţ	27N	R	5E	

FORMATION RECORD

Well Number	
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FROM	то	FEET	Note character of each fromation	e, sand, lime shale, sandy shale, etc & name key beds. i, i.e, color, hard, soft, caving, etc. Underreamed? .i.e, oil, gas, water, and kind of water-fresh, etc.
Surface	1855'	1855'	SS, LS, Shale	Must run and submit open hole logs sufficient to
				determine resistivity and porosity of all formations,
1855'	2167'	312'	Osage Layton	cased hole logs and sufficient to correlate with
1,000				open hale logs and determine cement bond
2167'	2327'	160'	Layton Sandstones	quality
2589'	2600'	11'	Checkerboard Limesto	ne
				Was well cored, enter code description
2691'	2771'	80'	Big Lime Limest	submit core analysis.
2813'	2899'	86'	Oswego Limestone	Copies of cementing service tickets should
				accompany this report
3006'	TD	63'	Burbank Sandstone	
				include drill stem, wire line, etc. Test information
			Mississippian Limesto	ne

			-	
			TD: 3069'	
				·
				, , , , , , , , , , , , , , , , , , ,
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	······································			

WELL OPERATION & GEOLOGICAL DATA

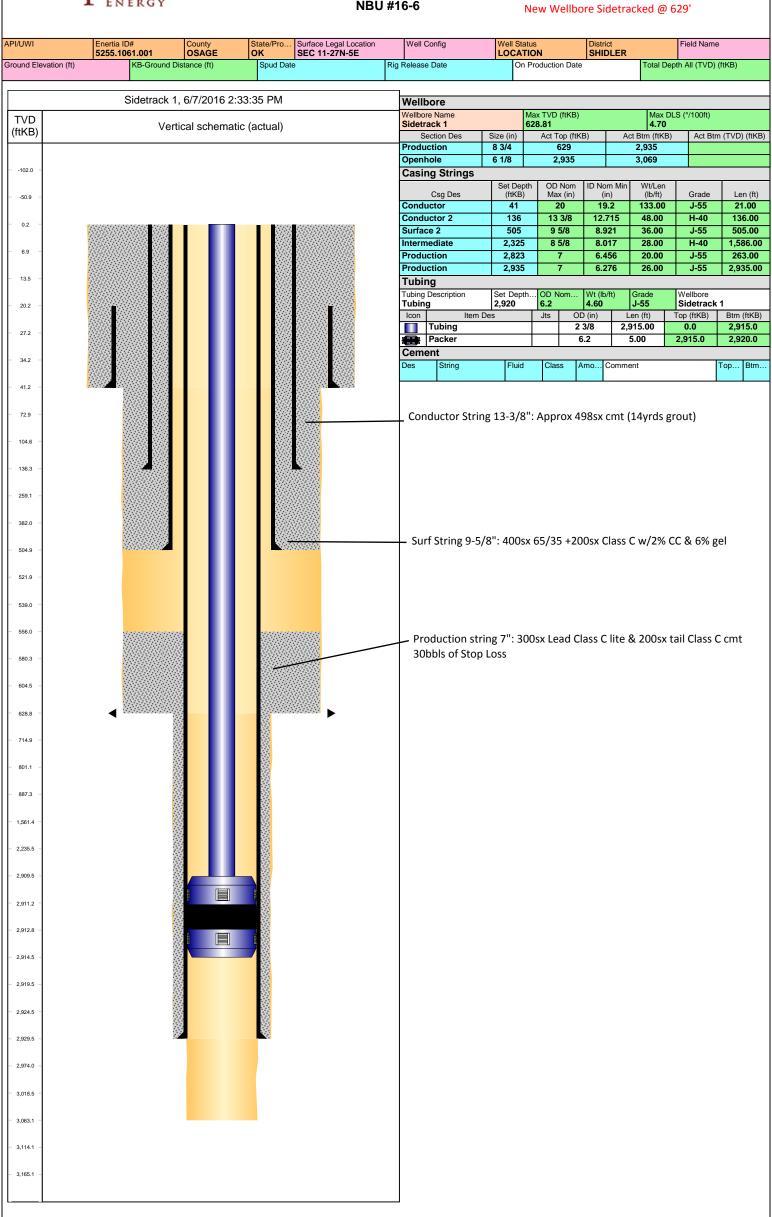
Permit Number

(for Osage UPO use only (Notern / Conversion / Authorized Dyx Rule) Type of Injection Well: __ EOR (EOR / SWD/ HC Storage) Injection: Rate (B/D): Average 2000 BW, 4000 MCF Maximum 4000 BW, 6000 MCF Fluid: Tds 113,400 sp. Gr. 1.079 Analyses Included: (Yes / No) Source (Formation name): Burbank Will anything be added to the water to be injected? (Yes /XXX) What will those additives be? Biocide + Oxygen scavenger if needed Geologic Data: All references to depths are below land surface. Injection Intervals: 2935 to 3069 ; ______to _____to Formation Name Burbank Lithology Sandstone Porosity (%) 15 Permeability (md) 32 Total formation thickness 58' Perforated or open hole interval 2935'KB-3069'KB Formation Name_____Lithology_____Porosity (%)_____ Permeability (md) _____ Total formation thickness Perforated or open hole interval____ Current Fluid Level in Well ft. (below land surface) and / or Date____6-8-2016 Current Reservoir Pressure 1580 Drill Stem Test (** / No) If yes, attach copy. Depth of nearest fresh water well(s) 150 ft. Facilities Associated with Injection Well: Adequate Berm around tank battery? (Yes /২১১১) Leaking Flow Lines? (Xes / No) Formation: Top/Bottom From PBTD to Surface. 3011.5'KB/ 3069KB Burbank



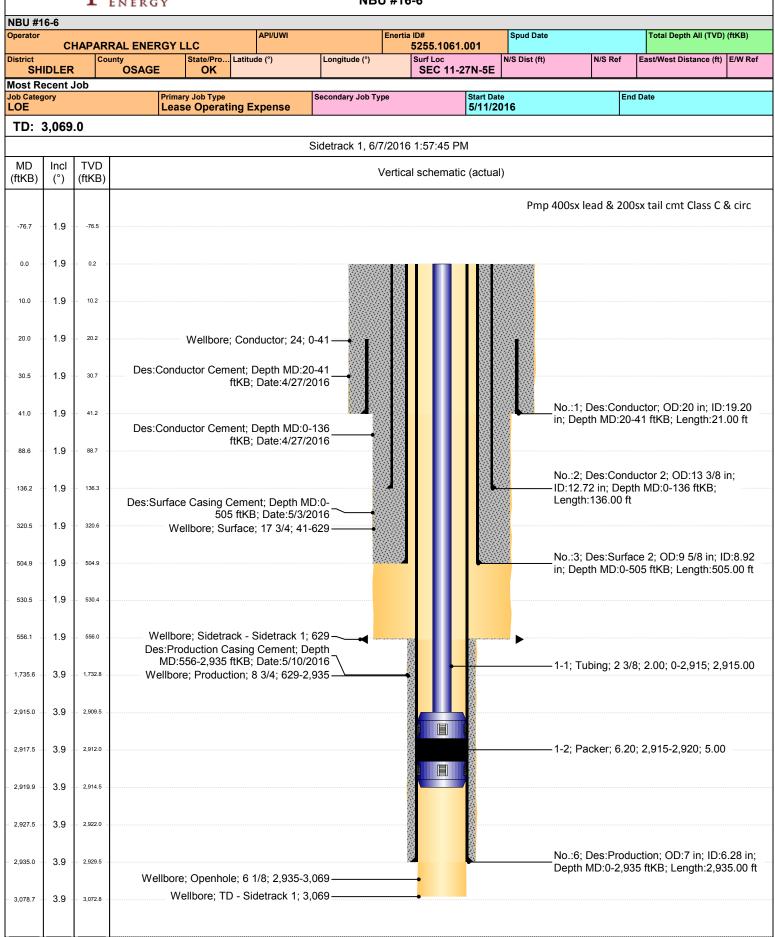
VERTICAL Schematic

NBU #16-6





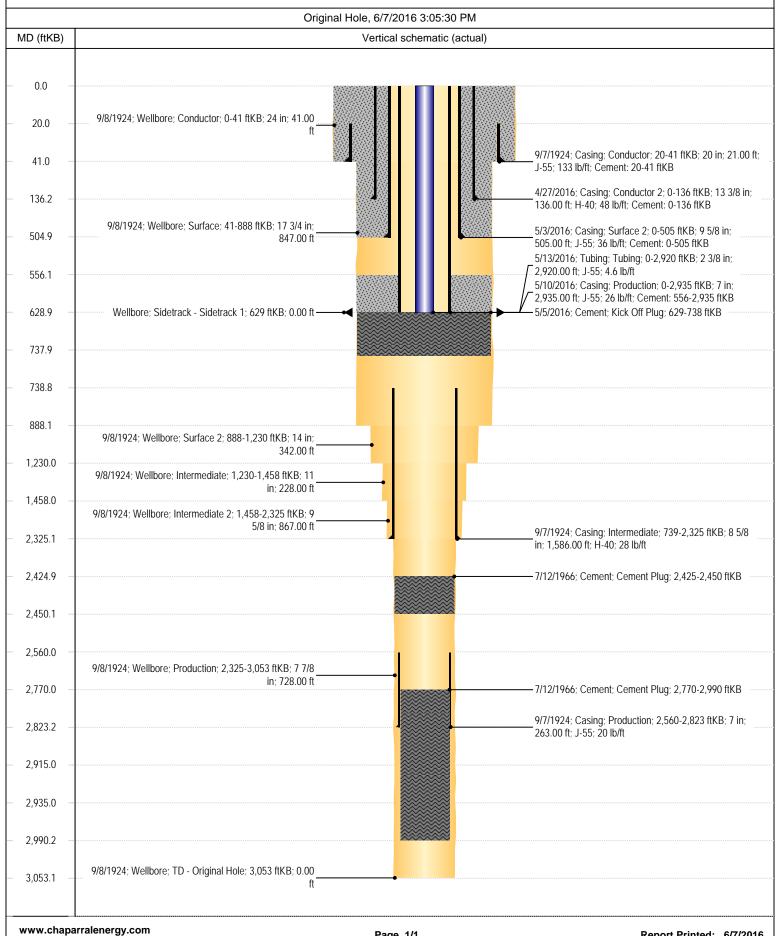
Wellbore Schematic (sidetracked) NBU #16-6

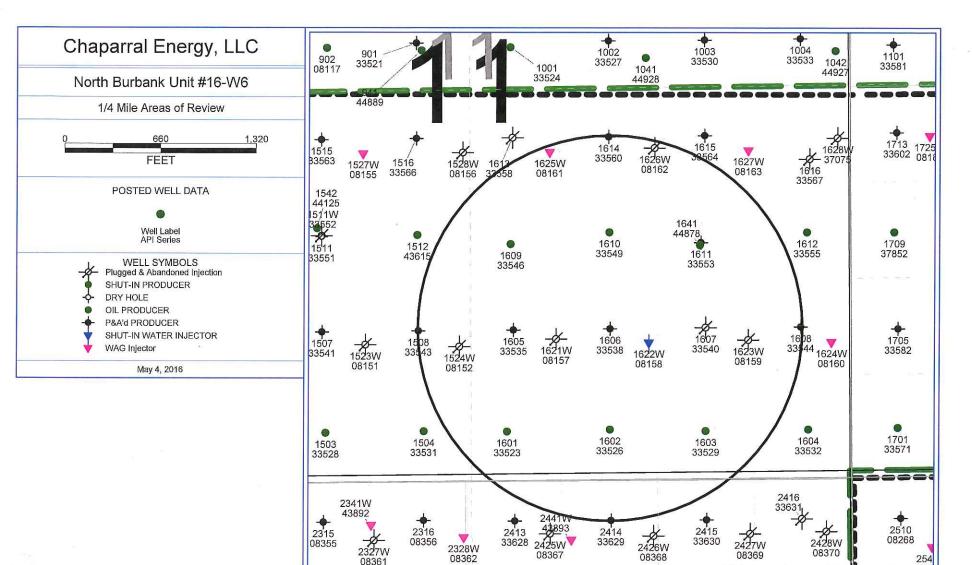




Schematic - Vertical Well **NBU #16-6**

ORIGINAL HOLE





 PETRA 5/4/2016 4:20:55 PM

 310x

> 23 10

Proposed I	nj Well	NBU #16-	·06 ******	*****	******	*****	*****	*****	*****	*****	****
Well Name	1524W	C	Compa	ny Name	Phillips Petroleum	n Da	te Drilled	4/8/19	963	Depth	3052 '
Location	890 ' F S	L &	75 '	F <mark>E</mark> L,	SW /4, Sec. 11	, T <u>27</u>	N, R <u>5</u>	E	Status	TA	
Elevation	1119.86	X GL	КВ								
<u>Hole</u>	<u>Casing</u>	<u>Lande</u>		Cer	ment & Additive Da	ata	Top of	<u> </u>	If well is	TA or P&	A Describe
<u>Size</u>	<u>Size</u>	<u>Depth</u>	<u>1</u>	<u> </u>	Henr & Additive De	<u> </u>	Cemen		How:	200 av Cla	ss C Neat (15.2#
9-7/8 "	8-5/8 "	1		00sks @ c	•		0	' 5	slurry) dov	wn 3-1/2"	csg, displaced to
6-1/8 "	4-1/2 "	29		5 sks w/30 el	% Diacel, 200sks re	g cmt 2%	1740	, t	test 3-1/2"	' to 800 ps	2553'. Pressure si, good.
6-1/8 "	3-1/2 "	29	72 ' 1	50 sks reg	w/2% CC		Surf	'	Well TA.		
"	"	'	1								uest for top plug to
"	"		'						BIA. Awa	iting appro	oval.
	"	1	'					'			
Formation	s Open To '	Wellbore	: <u>N</u> *****	lone *********	******	*****	******	*****	******	******	*****
Well Name	1605		Compa	ny Name	Phillips Petroleum	n Da	te Drilled	9/1/19	924	Depth	3020 '
Location	980 ' F S	L &	300 '	F <u>W</u> L,	SE /4, Sec. 11	, T <u>27</u>	N, R <u>5</u>	E	Status	P&A 7/2	26/1965
Elevation	1122.4	X GL	КВ								
Hala	Cooina	Londo	٨				Top of	: 1	lf wall ia '	T	A Deceribe
<u>Hole</u> Size	<u>Casing</u> Size	<u>Lande</u> Depth		<u>Cer</u>	ment & Additive Da	<u>ata</u>	<u>Top of</u> Cemen		n wen is How:	IAUIPa	A Describe
Unk "	8-5/8 "			lo cmt upoi	n completion			' F			-2510. Pld 110 jts
Unk "	7 "	28		See P&A w	•				-		480. Dmpd 10 sx csg & parted @
"			1								ridged hole @ 120'
II.			-						-	5 sx cmt.	Capped w/10 sx
"	"		1					, (cmt.		
Formation	s Open To	Wellbore	: <u>N</u>	lone ********	******	*****	*****	*****	*****	******	*****
Well Name	1621W		Compa	nv Name	Phillips Petroleum	n Da	te Drilled	4/4/19	963	Depth	3054 '
Woll Hallo	102177		Jompa	iny riamo	T Timpo T otroiouri	Bu	to Brillou	17 17 13	000	_ Boptiii	0001
Location	890 ' F S	L &	565 '	F <u>W</u> L,	SE /4, Sec. 11	, T <u>27</u>	N, R <u>5</u>	E	Status	P&A 3/	3/2011
Elevation	1127.17	X GL	KB								
<u>Hole</u>	Casing	<u>Lande</u>	ed	•			Top of	۱ ا	If well is	TA or P&	A Describe
Size	Size	Depth		Cer	ment & Additive Da	ata	Cemen	<u>t</u>	How:		
II.	8-5/8 "	1	11 ' 9	5 sks							at 613', POOH IH with 7" skirt on
"	4-1/2 "	30)11	5 sks w/30	% Diacel D		2616'(cal				d and cleaned out
"	"		' S	See P&A w	ork details.			' t	to 1670'.	Pump 300	sx reg ', POOH to
"	"		'								reg & displace tbg. ump 450 sx reg &
								t	bring cmt	to surface	from 619'. Top
								٧	well off w/	cmt.	
"	"		'					'			
Formation	s Open To	Wellbore		lone							
*********	******	*******	******	******	*******	*******	*********	*****	******	******	*****

Proposed I	nj Well <u>I</u>	NBU #16-06	*****	*****	*****	******	******	******	****
Well Name	1601	Com	pany Name	Chaparral Energy	Dat	e Drilled 7	7/17/1924	Depth	3021 '
Location	300'FS	L & 300	FW L,	SE /4, Sec. 11 , T	27	N, R 5	E Status	Produc	er
Elevation		⊠gl∏ke		<u> </u>					
Elevation	1115.3	MGr II ve	•						
<u>Hole</u> Size	<u>Casing</u> Size	<u>Landed</u>	Ce	ment & Additive Data		Top of Cement		TA or P8	A Describe
<u> 312 e</u>	<u> 312 e</u>	<u>Depth</u>	Pmp 600sk	s reg cmt @ 499' to surf o	ıp 20"	Cement	HOW.		
Unk "	20 "	31	' & 8-5/8"			Surf	'		
Unk "	8-5/8 "	2318	<u>'</u>			Surf			
Unk "	7 "	2773	Pulled all 7'	' in 1963 w/30% Diacel. Stg 1 TO	ີ @	N/A			
Unk "	5-1/2 "	2970		Shot off at 537' & POOH		Surf	,		
Unk "	4-1/2 "	2954	225 sx at bo	ottom - TOC unkwn, DV a surface	t 499'	Surf	,		
"	"		,				,		
Formation	s Open To	Wellbore:	Burbank				•		
Well Name	1609	Com	panv Name	Chaparral Energy	Dat	e Drilled 9	9/8/1924	Depth	3021 '
						_			
Location	980' FN	L & 300)	SE /4, Sec. 11 , T	27	N, R <u>5</u> E	E Status	Produc	er
Elevation	1127.7	X GL KE	3						
Hole	Casing	Landed				Top of	If well is	TA or P8	kA Describe
<u>Size</u>	<u>Size</u>	<u>Depth</u>	<u>Ce</u>	ment & Additive Data		Cement		171 01 1 0	AT DOGGTISO
"	20 "	20	Shot 2 sq h @ 530'.	oles @ 500' & 400' port co	ollar		Converted Converted		input 5/1973 8/1974
"	15-1/2 "	880	Top of 15-1	/2" at 211', non cemented			,		
"	8-5/8 "	2320	non cement	ted except for 7" sqz.		unkwn	1		
"	7 "	2805	sqz'd leak 1	,835' - 2330'		unkwn	'		
"	5-1/2 "	2962	275 sx reg			unkwn	'		
Formation	ns Open To V	Wellbore:	Burbank						
**************************************	1626\//	******	*******	Phillips Petroleum Co	*****		7/1/1963	********	3050
vveirivanie								_	
Location	420' F N	L 1245	' F <u>W</u> L	SE /4 Sec, 11 T	27	N R <u>5</u> E	E Status	P&A 12	2/30/1998
Elevation	1138	X GL KE	3						
<u>Hole</u>	Casing	Landed	0-	mont & Additive Data		Top of	If well is	TA or P8	kA Describe
Size	<u>Size</u>	<u>Depth</u>	<u>ce</u>	ment & Additive Data		Cement		11	——————————————————————————————————————
Unk	8-5/8 "	103	90sks reg c				3020' & circ	. 9.0 # gal	tbg. RIH w/wrkstring to mud from 3020' - 400'.
Unk	4-1/2 "	3000	75sks 30%						cmt @ 3020'. Pooh 40'. Shootoff 4-1/2" csg
			See P&A w	ork details			@ 425' & P	OOH w/sa	me. RIH w/tbg to 400'
									0 poz cmt to surface. -5/8" csg 3' below GL.
<u> </u>		<u> </u>	<u> </u>						
Formation	s Open To \	vvelibore: ******	None ***********	*******	*****	*****	******	******	*****

Proposed Inj Well NBU #16-06	*************
Well Name 1622W Company Name Phillips Petroleu	m Date Drilled 4/3/1963 Depth 3051 '
Location 890' FS L & 1245 ' FW L, SE /4, Sec. 11	, T 27 N, R 5 E Status Injection Well
Elevation 1130.89 X GL KB	
Hole Casing Landed Cement & Additive D	Data Top of If well is TA or P&A Describe
<u>Size Size Deptn</u>	Cement How:
12-1/4 " 8-5/8 " 114 ' 95 sks cmt, Liner cmt 150 sx	Surf Submitted 139 P&A request to BIA. Awaiting approval to plug.
8-1/2 " 3-1/2 " 2970 300 sx	0
8-1/2 " 4-1/2 " 3020 ' 80 sks w/30% Diacel D	2700(calc) '
" " '	<u>'</u>
1 1	'
n n	'
Formations Open To Wellbore: Burbank	
Well Name 1607 Company Name Phillips Petroleu	Doto Drillod 0/25/1024 Donth 2051
Well Name 1607 Company Name Phillips Petroleu	m Date Drilled 9/25/1924 Depth 3051 '
Location 980 FS L & 979 FE L, SE /4, Sec. 11	, T 27 N, R 5 E Status P&A 4/11/1963
Elevation 1133.70 X GL KB	
Hole Casing Landed Company & Adultion 5	Top of If well is TA or P&A Describe
Size Size Depth Cement & Additive D	Oata Cement How:
Unk " 8-5/8 " 2315 ' No cmt upon completion	Spotted 103 sx reg w/30% Diacel D -
Unk " 7 " 2824 See P&A work details	TOC 2800' Ripped 7" csg 2680-75' &
" " 1	pld 125 jts. Dmpd 10 sx cmt @ 2600'. Ripped 8-5/8" csg 200-680' & pld 32
n n ,	jts. Mudded hole to surf.
" " '	,
Formations Open To Wellbore: None	<u> </u>
**********************	**************
Well Name 1623W Company Name Phillips Petroleu	m Date Drilled 3/29/1963 Depth 3066 '
Location 890 FS L & 775 FE L, SE /4, Sec. 11	, T 27 N, R 5 E Status P&A 5/27/1992
Elevation 1137.73 X GL KB	
Hole Casing Landed Compart & Additive F	Top of If well is TA or P&A Describe
Size Size Depth Cement & Additive D	Oata Cement How:
Unk " 8-5/8 " 102 ' 95sks reg cmt	Perf 4-1/2 csg @ 1400' & 1350' 2
Unk " 4-1/2 " 3010 ' 75sks 30% Diacel D	spf. Ran in hole w/2-3/8" ws,
" " See P&A work details	loaded hole w/gel, pmpd 10 sx plug on BP @ 2748'. Spot 55sk
" " '	plug off BP @ 2746 . Spot 558k cmt 1402'-1250'. POOH, LD tbg.
	Shot off 4-1/2" csg @ 308'. Ran
	280' of 2-3/8" tbg circ 105sk cmt to
n n	surf. Topped off plug.
Formations Open To Wellbore: None	

Proposed I	nj Well	NBU #16-06	***********	*****	*******
Well Name	1602	Comp	pany Name Phillips Petroleum Da	ate Drilled 8/3	1/1924 Depth 3056 '
Location	300 ' F S	L & 980	'F <u>W</u> L, <u>SE</u> /4, Sec. <u>11</u> , T <u>27</u>	7 N, R <u>5</u> E	Status Oil Producer
Elevation	1126	X GL KB	3		
<u>Hole</u>	<u>Casing</u>	<u>Landed</u>	Cement & Additive Data	Top of	If well is TA or P&A Describe
Size	Size	<u>Depth</u>	<u> </u>	Cement	How: Converted from SD GI to active oil
9-1/2 "	20 " 8-5/8 "	21 ' 2335 '	No cmt upon compl	surface	well 4/17/64.
0 1/2	0 0/0	2000	omt w/40 sks rog 20% DD. Cut off at	Gariago	
			cmt w/40 sks reg 30% DD. Cut off at 550' and POOH with same, Cement		
8-3/4 "	5-1/2 "	2994 '	499' - surf via 4-1/2" D.V. tool	surface	<u>'</u>
,,	4-1/2 "	2970	200 sx (stg 1) + 300 sx out D.V. at 499'.	270	
	"	,	499.		<u>.</u>
"	"	,			<u>,</u>
Formation	ns Open To \	Wellbore:	Burbank	Į.	
******	******	*******	*************************	*****	******
Well Name	1603	Comp	pany Name Phillips Petroleum Da	ate Drilled 9/24	4/1924 Depth 3054 '
Location	300 ' F S	L & 979	'FEL, SE /4, Sec. 11 , T 27	7 N, R <u>5</u> E	Status Oil Producer
Elevation	1137.1	X GL KB	3		
				_ ,	
Hole Size	Casing Size	<u>Landed</u>	Cement & Additive Data	Top of	If well is TA or P&A Describe
Hole Size	<u>Size</u>	<u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How: 6-20-63: CO to 3025'. Ran 6 jts
	<u>Size</u> 20 "	Depth 22 '		Cement	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B"
	<u>Size</u>	<u>Depth</u>	Cement & Additive Data Shoot sqz holes at 500' & 400'	<u>Cement</u> surface	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'.
	<u>Size</u> 20 " 8-5/8 "	<u>Depth</u> 22 ' 2349 '	Shoot sqz holes at 500' & 400'	<u>Cement</u> surface surface	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @
	<u>Size</u> 20 " 8-5/8 "	<u>Depth</u> 22 ' 2349 '	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a	<u>Cement</u> surface surface	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D &
	<u>Size</u> 20 " 8-5/8 " 7 "	Depth 22 ' 2349 ' 2834 '	Shoot sqz holes at 500' & 400'	Surface surface t	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @
<u>Size</u> "	<u>Size</u> 20 " 8-5/8 " 7 "	Depth 22 ' 2349 ' 2834 ' 2993 '	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a	Surface surface t	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @
Size " " " " Formation	Size 20 " 8-5/8 " 7 " 5-1/2 " as Open To V	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore:	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank	Surface surface t surface	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'.
<u>Size</u> "	Size 20 " 8-5/8 " 7 " 5-1/2 " as Open To V	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore:	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Dany Name Phillips Petroleum	surface surface t surface ate Drilled 9/2:	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'. 3040
Size " " " " Formation	Size 20 " 8-5/8 " 7 " 5-1/2 " as Open To V	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore:	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank	surface surface t surface ate Drilled 9/2:	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'.
Size " " " " Formation ************************************	Size 20 " 8-5/8 " 7 " 5-1/2 " " 1608 980 ' F S	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore:	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Dany Name Phillips Petroleum 'FEL, SE /4, Sec. 11 , T 27	surface surface t surface ate Drilled 9/2:	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'. 3040
Size "" "" Formation Well Name Location Elevation Hole	Size 20 " 8-5/8 " 7 " 5-1/2 " s Open To V 1608 980 ' F S 1141.5 Casing	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore: Comp L & 300 X GL KB	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Dany Name Phillips Petroleum 'FEL, SE /4, Sec. 11 , T 27	surface surface t surface t surface Top of	How: 6-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'. Status P&A 4/15/1966
Size "" "" Formation *********** Well Name Location Elevation Hole Size	Size 20 " 8-5/8 " 7 " 5-1/2 " " s Open To V ************************************	Depth 22 2349 2834 2993 Wellbore:	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Dany Name Phillips Petroleum 'FE L, SE /4, Sec. 11 , T 27	surface surface t surface t surface Attribute To N, R 5 E	How:
Size "" "" Formation *********** Well Name Location Elevation Hole Size Unk "	Size 20 " 8-5/8 " 7 " 5-1/2 " ss Open To V 1608 980 ' F S 1141.5 Casing Size 10-3/4	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore: Comp L & 3000 X GL KB Landed Depth 1138 '	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Phillips Petroleum 'FEL, SE /4, Sec. 11 , T 27	surface surface t surface t surface Top of	How: 16-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'.
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Size "" "" Formation ************************************	Size 20 " 8-5/8 " 7 " 5-1/2 " s Open To \ 1608 980 ' F S 1141.5 Casing Size 10-3/4 8-5/8	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore: Comp L & 300 X GL KB Landed Depth 1138 ' 2317 '	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Phillips Petroleum 'FEL, SE /4, Sec. 11 , T 27	surface surface t surface t surface Top of	How:
Size "" "" Formation *********** Well Name Location Elevation Hole Size Unk " Unk " ""	Size 20 " 8-5/8 " 7 " 5-1/2 " s Open To \ 1608 980 ' F S 1141.5 Casing Size 10-3/4 8-5/8	Depth 22 ' 2349 ' 2834 ' 2993 ' Wellbore: Comp L & 300 X GL KB Landed Depth 1138 ' 2828 '	Shoot sqz holes at 500' & 400' 270 sx(stg 1) + 870 sx. thorugh DV a 500'. Stg 1 TOC unkwn Burbank Phillips Petroleum 'FEL, SE /4, Sec. 11 , T 27	surface surface t surface t surface Top of	How: 16-20-63: CO to 3025'. Ran 6 jts (254.30') 5-1/2" OD 17# 8R R-3 "B" csg set @ 2993', top Inr 2738.70'. Cmtd w/70 sx reg w/20% Diacel D & 2% CC. CO cmt & cvgs to btm @ 3054'.

Proposed	Inj Well	NBU #16-06 ******	********	*****	******	******	*****	*****
Well Name	1508	Com	pany Name Phillips Petroleum	Date	e Drilled 4/1	1/1924	Depth	3006 '
Location	980'FS	L & 275	'FEL, SW /4, Sec. 11	, T <u>27</u>	N, R <u>5</u> E	Status	P&A 4/	17/1963
Elevation	1104.3	X GL KE	3					
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Da	<u>ta</u>	Top of Cement	If well is T How:	A or P8	A Describe
Unk "	8-5/8 "	2300	No cmt upon completion					mon w/30% Diacel 0' - TOC 2750',
Unk "	7 "	2766	See P&A work details			Ripped 7"	2720-25	55' & pld 118 jts.
"	"							2450'. Ripped 8- old 50 jts. Mudded
<u>"</u>	"					hole to sur		,
	"					1		
Formation	ns Open To \	Wellbore:	None					
******	******	******	*********	*****	******	******	******	*****
Well Name	1610	Com	pany Name Phillips Petroleum	Date	e Drilled 9/24	4/1924	Depth	3036 '
Location	980 ' F N	L & 979	'FWL, SE /4, Sec. 11	, T <u>27</u>	N, R <u>5</u> E	Status	Produc	er
Elevation	1126.6	X GL KE	3					
<u>Hole</u> Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Da	<u>ta</u>	Top of Cement	If well is T	A or P8	A Describe
			Shot two holes @ 500' & 400', po		<u> </u>			
Unk "	20 "	20	@ 530'. Pmp 600sx to surf		Surf	<u>'</u>		
Unk " Unk "	8-5/8 " 7 "	2335 ¹ 3008 ¹			Surf Surf	<u> </u>		
	5-1/2 "		Shot sq holes @ 2810', 2850', 28 35sx cmt @ 2920'. Pmp 150sx 2	395', pmp % gel &	108			
Unk "	J-1/Z	2930	50sx reg.		100			
Formation	ns Open To \	Wellbore:	Burbank					!
******	*****	*****	**********	*****	*****	******	******	*****
Well Name	1611	Com	pany Name Phillips Petroleum	Date	e Drilled 10-	1-1924	Depth	3053 '
Location	980' FN	L & 979	'F <u>E</u> L, <u>SE</u> /4, Sec. <u>11</u>	, T <u>27</u>	N, R <u>5</u> E	Status	P&A 5/	31/1995
Elevation	1136.9	X GL KE	3					
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Da	<u>ta</u>	Top of Cement	How:		A Describe
Unk "	7	2849	No cmt upon completion					ementing work. ove pkr RIH w/tbg
"		1	See P&A work details			to 496' pm	p 50 sx c	mt. COOH WOC
"		'						: @ 217' mx pmp ide 8-5/8 csg,
"		'				COOH set	pkr @ sı	urf RDMP WSU
						cap csg w/ cmt, Bottor		D. Top Plug 725sx
						Joint, Bottor	ii i iug I	oo aa oiiit.
Formation	ns Open To \	Mellhore:	Nana			']		
i omialiol	19 Oben 10 /	v v GIIDOI C.	None					

Proposed I	nj Well	NBU #16-06	WHICH PENETRATE THE INJECTION	N ZONE	
Well Name	1641	Comp	pany Name Chaparral Energy	Date Drilled 3/2	/2013 Depth 3139 '
Location	1572 ' F S	L & 1032	'FEL, SE /4, Sec. 11 , T 2	7 N, R <u>5</u> E	Status Producer
Elevation	1139	X GL KE			
<u>Hole</u>	<u>Casing</u>	<u>Landed</u>	Cement & Additive Data	Top of	If well is TA or P&A Describe
<u>Size</u>	<u>Size</u>	<u>Depth</u>	<u> </u>	Cement	How:
12-1/4 "	9-5/8 "	800 '	Pmp 350sx Class A cmt 2% gel 6% cal, .4pheno	10	•
8-3/4 "	7 "	3107 '	150 sx class c	1734	<u> </u>
"	"				<u>-</u>
"	"	'			<u> </u>
"	"	,			<u> </u>
Formation	"	Mallhara.			'
*******	s Open To \ *******	vveiidore: ******	_Burbank ************************************	*****	******
Well Name	1625W	Comp	pany Name Phillips Petroleum D	Date Drilled 7/8	/1963 Depth 3080 '
Location	420 ' F N	L & 565	'FWL, SE /4, Sec. 11 , T 2	7 N, R <u>5</u> E	Status WAG Injector
Elevation	1144.85	X GL KE	.		
<u>Hole</u>	Casing	Landed		Top of	If well is TA or P&A Describe
Size	Size	<u>Depth</u>	Cement & Additive Data	Cement	How:
12-1/4 "	8-5/8 "	113	90 sx w/ 30% diacel D(at compl). RII with 1" between 8-5/8" and 4-1/2" to 360' and cement to surface with 225 sx reg.	H Surf	
8-1/2 "	3-1/2 "	2999 '	150sx cmt 2% gel	unkwn	,
8-1/2 "	4-1/2 "	3014 '	75 sx w/30% Diacel D(compl)	1750	
"	"	,			<u> </u>
"	II	1			,
Formation	ns Open To '	Wellbore:	Burbank	*****	******
Well Name	1614	Comp	pany Name Phillips Petroleum D	Date Drilled 8/2	2/1924 Depth 3051 '
Location	300 ' F N	L & 978	'F <u>W</u> L, <u>SE</u> /4, Sec. <u>11</u> , T <u>2</u>	7 N, R <u>5</u> E	Status P&A 12/17/1965
Elevation	1138.1	X GL _KB			
<u>Hole</u> Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
<u> </u>	8-5/8	2333 '	No cmt upon completion	OGINGIIL	Cmtd from w/60 sx cmt & 30% DD.
"	7	2840 '	See P&A work details		Max press 700#. Ripped 7" csg @
"	<u> </u>	2040	555 Fast Work dotails		2700' pld 123 jts. Bridged hole @ ' 2600' & dmpd 10 sx cmt. Ripped 8-
"		,			, 5/8" csg @ 1010' & pld 25 jts. Bridged
					hole @ 140' & dmpd 45 sx cmt. Bridged @ 25' & dmpd 10 sx cmt.
"		,			Capped w/5 sx reg cmt.
Formation	s Open To	Wellbore:	None	1	· · · · · · · · · · · · · · · · · · ·
******	******	******	************	******	*******

Proposed Inj W	Vell <u>NBU</u>	#16-06	******	******	*****	*****	*****	****	*****	*****	****
Well Name 241	14	Comp	any Name	Phillips Petro	oleum	Date	e Drilled	8/22	2/1924	Depth	3061
Location 3	00'F <u>N</u> L 8	980	' F <u>W</u> L,	NE /4, Sec	. <u>14</u> , T	27	N, R <u>5</u>	E	Status	P&A	
Elevation 1	136 X	GL KB									
		anded Depth	<u>Ce</u>	ment & Additi	ve Data		Top o		If well is 7	A or P&	A Describe
Unk "	8-5/8 "	2335 '	No cmt up	on completion	า		10	'		•	w/30% Diacel D &
Unk "	7 "	2835 '	See P&A	work details			1748	'			DC 2675'. Ripped ld 116 jts. Dmpd
п	"							'			Ripped 8-5/8" csg
п	"	1						'	2200-1130 31 jts. Mud	٠.	rted @ 697' & pld
"	"	1						1	Joi jis. Muc	iucu IIOIC	to suii.
"	"	1						'			
Formations O	pen To Well	bore:	None								

APPLICANT'S PUBLIC NOTICE OF PERMIT AND VERIFICATION (§147.2918 (b) (s) and §147.2929 (d) (ii)

Chaparral Energy, LLC		_ is applyi	ng for a pern	nit for a Class II
(Operator Name) injection well. Well No. 16-W6	is located		940	S] line and
979 ft. from [E W] line.	SE/4 Sec. 11 /4 Sec. & Sec. No.)	(Twp.)	5E (Rge.))
The well will be used to inject Produ		nto the	Burban (Formatio	k
for /XXXXXXI/enhanced recovery).	The well operator Blvd. Oklahoma C	's address	is	
(Street/P.C	D. Box/City/State/Zip	Code)		en de la companya de
EPA may prepare a draft permit or preparation of a draft permit or interfer further information concerning to Osage UIC Office P. O. Box 1495 Pawhuska, Oklahom Phone: (918) 287-533	nt to deny, there the status of this and the status of this and the status of the stat	will be an c	opportunity to	r public comments.
Chaparral Real Estate, LLC	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX) Circle o	ne	
Name				19.
701 Cedar Lake Blvd. Address			Å.	
Oklahoma City, OK 73114 City / State / Zip Code				
	(41)			J - 16
I certify that the surface owner(s), to operator of a producing lease within notice as required by 40 CFR \$147	n one-half mile of	nd where th f the well Ic	ne injection w cation was n	vell is located, and each nailed a copy of this
(Owner/Operator/Signature)	म र प्राच्यात गण् य	(Date of	29 2015 Notice)	**************************************

APPLICANT'S PUBLIC NOTICE OF PERMIT AND VERIFICATION (§147.2918 (b) (s) and §147.2929 (d) (ii)

Chaparral Energy, LLC	*	_ is applyi	ng for a pern	nit for a Class II
(Operator Name) injection well. Well No. 16-W6	is located			S] line and
979 ft. from [E W] line.	SE/4 Sec. 11 4 Sec. & Sec. No.)	; 27N (Twp.)	5E (Rge.)	
The well will be used to inject Produ-	ced Salt Water ir	nto the	Burban (Formation	K
for (২০১২) for (২০১২) for (২০১২) for (২০১২) for (২০১২)	he well operator Ivd. Oklahoma C	's address ity, Ok 731	is	C
(Street/P.O	. Box/City/State/Zip	Code)		
EPA may prepare a draft permit or a preparation of a draft permit or intenformation concerning the Osage UIC Office P. O. Box 1495 Pawhuska, Oklahoma Phone: (918) 287-533	t to deny, there the status of this and the status of this and the status of the statu	vill be an o	pportunity to	r public comments.
Notice Sent To: (SXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	K≪mant/Operator) Circle o	ne	
Chaparral Energy, LLC		* t .		8
701 Cedar Lake Blvd.	-			
Address				E
Oklahoma City, OK 73114 City / State / Zip Code	· · · · · · · · · · · · · · · · · · ·			
	*			ů.
I certify that the surface owner(s), the operator of a producing lease within notice as required by 40 CFR \$147.	one-half mile of	d where th the well lo	e injection w cation was n	rell is located, and each nailed a copy of this
(Owner/Operator Signature)		(Date of	29/26/5 Notice)	

Form E-155

B001236

UNITED STATES DEPARTMENT OF THE INTERIOR

BÜREAU OF INDIAN AFFAIRS

NATIONWIDE OIL AND GAS LEASE BOND

KNOW ALL MEN	v by these preser	VIS, That we	CHI Bristol Abquistica Chapartal Oli, i. I.,C.	, L.P., Chaparrel Thergy, L.I	.c.,
		f 701 Cei	er Lake Biyd., Okia	hóma, OK 73114	
as principals , and_	U.S. Specialty Insuranc	e Company .	man fi	a parkana parkana pa da da mana da mana pangana pangana pangana pangana pangana pangana pangana pangana pangan	· · · · · · · · · · · · · · · · · · ·
United States of Am of the United States	reeway, Houston, TX 770 nerica the sum of ori for the payment of whi of our heirs, successors, ents.	e hundred fil ch, well and	ly thousand (\$15 ruly to be made,	0,000) dollars, law! we bind ourselves	ful money and each
Sealed with or	ur seals and dated the	31sf dz	y of	October	<u>, ris 2004</u>
heréafter enter Into prospecting permits o by the United States	s obligation is such that or otherwise acquire a of various dates and pers in trust for individual figuration without the co	u interest in riods of durat al Indians, or	oil and gas min ion covering land tribes or band	ning leases and oll ds or interests in la s of Indians, or s	l and gas ands held ubject to

representative, which leases and permits have been or may hereafter be granted or approved by the Secretary of the Interior or his authorized representative, and the identification of which herein is expressly waived by both principal s and surety hereto.

WHEREAS the principals and surety agree that the coverage of this bond shall extend to and include all extensions and renewals of leases and permits covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth therein.

WHEREAS the surety hereby waives any right to notice of any modification of any such lease or permit, or obligation thereunder whether effected by extension of time for performance, by commitment of such lease to unit, cooperative, or communitization agreement, by waiver, suspension, or charge in rental, except an increase thereof, by minimum royalty payment, except an increase thereof, by compensatory royalty payment, or otherwise, this bond to remain in full force and effect notwithstanding.

WHEREAS the principals and surety agree that the neglect or forbearance of the obligee of any such lease or permit in enforcing the payment of any rental or royalty or the performance of any other covenant, condition, or agreement of any such lease or permit shall not in any way release the principal and suret I, or either of them, from any liability under this bond; and

WHEREAS the principals and surety agree that in the event of any default under any such lease or permit, the obligee may prosecute any claim, suit, action, or other proceeding against the principals and surety or either of them, without the necessity of joining the other.

Now, if the said principals herein shall faithfully carry out and observe all the obligations assumed in said leases and permits to which CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C., Chaparral Oil, L.L.C. is now or may hereafter become a party, and shall observe all the laws of the United States and regulations made, or which shall be made, thereunder, for the government of trade and intercourse with Endian tribes, and all rules and regulations that have been or shall hereafter be lawfully prescribed

by the Secretary of the Interior relative to said oil and gas mining lesses and permits, and shall in all particulars comply with the provisions of said leases, permits, rules and regulations, then this obligation shall become rull and void; otherwise, to remain in full force and effect. The rate of premium charged on this bond is \$ 25/1900 ; the total premium **3,750.00** pald is \$ Signed and sealed in the presence of-CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C., Homas C. 1 Chaparral Oil, L.L.C. Thomas C. Lough P.O. 701 Cedar Lake Blv . Terrell N. Lay Mark A. Fischer, Manager P.O. 701 Cedar Lake Blvd., CKG CK 73114 .U.S. Specialty Insurance Company Molly Battenfield 777 Post Oak Blvd., Suite 330, Houston, TX 77056 SEAL W. Russell Brown, Jr., Attoxuer-in-Fact Diane E. Carey 777 Post Calc Blvd., Suite 330, Houston, TX 77056 SEAL P.O. _____ SEALI DEPARTMENT OF THE INTERIOR * Two witnesses to each signature BUREAU OF INDIAN AFFAIRS DEPUTY BUREAU DIRECTOR-TRUST SERVICES 1849 CSTREET, N.W., MS-4639-MIB WASHINGTON, D. C. 20240 -/1 - ,2005

DEPUTY BUREAU DIRECTOR TRUST SERVICES

Approved:

Important Notice Regarding Terrorism Risk Insurance Act of 2002

In accordance with the Terrorism Risk Insurance Act of 2002 (the "Act"), this disclosure notice is provided for surety bonds on which U.S. Specialty Insurance Company is the issuing surety.

The premium attributable to any bond coverage for "acts of terrorism" as defined in Section 102(1) of the Act is Zero Dollars (\$0.00).

The United States will reimburse the Issuing Sureties for ninety percent (90%) of any covered losses from terrorist acts certified under the Act exceeding the applicable surety deductible.

The actual coverage provided by your bond for acts of terrorism, as is true for all coverages, is limited by the terms, conditions, exclusions, penalties, limits, other provisions of your bond and the underlying contract, any endorsements to the bond and generally applicable rules of law. This Important Notice Regarding Terrorism Insurance Risk Act of 2002 is for informational purposes only and does not create coverage nor become a part or condition of the attached document.

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POWER OF ATTORNEY

(To be used with bonds issued on Behalf of U. S. SPECIALTY INSURANCE COMPANY)

Know All Men by These Presents That, U. S. SPECIALTY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Eirlig E. Frenk DI, W. Russell Brown, Jr.

its true and lawfind Attorney-in-fact, with full power and anthority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed Three Million Dollars (\$3,000,000) and to bind the Company thereby as fully and to the same extent as if such bonds were signed by the President, scaled with the corporate scal of the Company and drily attested by its Secretary, hereby ratifying and confirming that the said Attorney-investing the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the U.S. Specialty Insurance Company:

Be it Resolved, that the President, my Vice-President any Assistant Vice-President, my Secretary or any Assistant Secretary shall be and it hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, actinowieding and deliver, any and all bonds, recognizances, contacts, agreements or indemnity and other conditional or obligatory undertailings and any and all notices and documents canceling as terminating the recognizances, contacts, agreements or indemnity and other conditional or obligatory undertailings and all notices and documents canceling as terminating the Company as if signed by the President Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and scaled and effected by the Corporate Searchary.

Be if Resolved, that the signature of any authorized differ and seal of the Company hereiofine or hereafter affixed to any power of attorney or eny certificate relating therein by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted by unanimous written consent in lieu of meeting on July 7, 2003.)

In Witness Whereof, U.S. SPECIALTY INSURANCE COMPANY has caused these presents to be signed by its President, and its composate seal to be hereto affixed this 24th of August, 2004.

Comporate Scal

U. S. SPECIALTY INSURANCE COMPANY

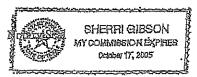
Sinte of Texas

County of Harris

222

Michael J. Schell, President

On this 24th of August before me personally came Michael I. Scheil, to me known, who, being by me duly sworn, did depose and say, that he resides in Housian, Texas, that he is President of U. S. SPECIALTY INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.



My commission expires 10-17-05

I, Christopher L. Martin, Secretary of U. S. SPECIALTY INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; finthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereinto set my hand and affixed the seal of said Company at Houston, Texas this 31st day of October 2004.

Corporate Seal

Christopher L. Martin, Secretary

•		-
Bond No	B001236	

ASSUMPTION OF LIABILITY RIDER

It is hereby agreed by and between the undersigned principal and surety, in consideration for the additional premium or consideration paid for this rider, if any, and the consent by the United States to terminate the period of liability on surety bond number 886682C carrying the same principal and Developers Surety and Indomnity Company as surety, the undersigned principal and surety hereby assume any and all liabilities that may be outstanding on surety bond number 886682C including but not limited to, the obligation to properly plug and abandon all wells existing, to which surety bond number 886682C applies and any unpaid rentals or royalities heretofore accruing; provided, however, that this rider shall not act to increase the potential or cumulative liability of the surety above the face amount of the bond to which this rider attaches.
Brechted this 31st day of October , 2004 .
Winesses CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C., Chaparral Oil, L.L.C. Name of Winness Thomas C. Lough 701 Cedar Lake Blvd., OKC, OK: 73114 Address of Winess Signature
701 Cedar Lake Blvd. OKC. OK 73114 Mark A. Fischer, Manager Principal's Address Name and title of person executing for Principal
Name of Witness Molly Battenfield 777 Post Oak, Ste 330, Houston, TX 77056 Address of Witness U.S. Specialty Insurance Company Name of Sirchy Name of Sirchy Signature
W. Russell Brown, Jr., Atticutes-in-Fact Name and title of person executing for Surety 13403 Northwest Freeway, Houston: TX 77040 Surety's Address

STATEMENT OF AUTHORIZATION

I. Mark A. Fischer	, hereby authorize _	Kevin Turner	to act
in my behalf in executing any ne	cessary forms, to includ	e Permit Application	ons, Compliance
Reports, etc., as required by the	Environmental Protection	on Agency Underg	round Injection
Control Program.			
Mark A. Fischer			
Printed Name	che		
Signature			
Manager, Chaparral Energy, LLC			
Title			
July 16, 2015			
Date			

STATEMENT OF AUTHORIZATION

I, <u>M</u> ark A. Fischer in my behalf in executing any nece Reports, etc., as required by the Er Control Program.	_, hereby authorize ssary forms, to include I wironmental Protection	Darmit Applications	Carroller Man
•			
Mark A. Fischer	•	•	
Printed Hand	4		
Signature			
Manager of Chaparral Energy, L.L. Title	C		•
September 04, 2012			
Date			

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilities of fine and imprisonment.

Engineering Jech Specialist

*If certification is signed by a party other than the injection well owner/operator a written statement of authorization signed by the owner/operator must accompany the application.



